### **GEOSEARCH CONSULTANTS LIMITED**



2406NW8472 2,10927 BRISTOL

010

MAGNETIC SURVEY
for
PLACER DOME INC.
on
PROJECT 246
BRISTOL AND OGDEN TWPS., ONTARIO
(To Accompany Maps 87-191 - C to I)

JANUARY 29, 1988

#### INTRODUCTION

A total field magnetic survey was carried out for Placer Dome Inc. on Project 246, Bristol and Ogden

Townships, Ontario in August, September and December, 1987.

This survey is an extension of the south grid of previous work completed in September, 1984. (ref: Geosearch Report for Dome Exploration (Canada) Ltd. on Project 246, December, 1984). As well, a number of intermediate lines were surveyed to detail a previously surveyed area.

The property is located in Bristol and Ogden
Townships approximately 10 km. SW from the town of Timmins,
Ontario from where access was made via Highway 101. A list
of the unpatented mining claims covered by this survey is
listed at the back of this report.

The purpose of this survey was to outline geological structures which may prove conducive for gold mineralization. A number of dyke-like structures as well as some poorly defined faults were observed.

The accompanying maps show the area surveyed and the results obtained.

A technical data sheet is appended to the report.

#### RESULTS

The magnetic survey was tied to the previous work to ensure continuity of the isomagnetic contour lines.

Contouring of the data was completed by Placer Dome Inc.

The magnetic survey reveals an area with a background of approximately 59,260 gammas. No major regional trends are obvious. Within this background there are many well defined dyke-like features as well as a number which are more poorly defined. These dykes have a N/NW striking trend. Values of these dykes are as high as 59,900 gammas with high values of 59,400 and 59,600 being more common.

Locations of some of the major dykes are as follows:

Map 87-191-E L14+00W, 5+00N to L11+00W, 3+00S

-191-E L 8+00W, 6+00N to L 2+00W, 0+00

-191-D L27+00W, 4+00N to L24+00W,13+00S

-191-D L30+00W, 3+00N to L30+00W,13+00S

-191-D L24+00W, 5+00N to L20+00W,13+00S

-191-D,G L17+00W,15+00S to L12+00W,22+00S

The first two of these are narrow and well defined, the rest are wider. The last two appear to be part of the same dyke offset at L18+00W, 14+00S. The north/south line direction does not lend itself well to defining the N/S trending dykes.

A number of N/S trending features which are not well defined are listed below.

Map 87-19-F L5+00E, 5+00S to L6+00E, 11+50S
-E,F L1+00E, 7+00S to L3+00E, 12+00S
-E L13+00W,7+00S to L12+00W, 11+00S
-C,I L1+00E, 0+00 to L3+00E, 8+00S
-I L6+00E, 0+00 to L6+00E, 2+00S

These features are poorly defined due to either the line direction, the contouring or the weak magnetic expression.

An east-west trending fault like feature is located on Map 87-191-E and F from LO+00, 12+00S to L23+00W, 14+00S. The magnetic values are not very pronounced, however, the disruption of the magnetic dykes identifies the fault quite well.

A second fault-like feature which is even less pronounced than the first is located from L3+00W, 2+00S to L7+00W, 6+00S (Map 87-191-E). This fault can be extrapolated to L25+00W, 8+50S (Map 87-191-D) where there are a number of "breaks" visible in the dykes.

#### RECOMMENDATIONS

The data presented should be used in conjunction with the known geology to plan further work. Of special interest are the two fault structures which are worthy of further investigation. No drill targets are recommended solely on the data presented.

GEOSEARCH CONSULTANTS LTD.

Louis Racic, BSc.

Geophysicist



# Geophysical-Geological-Geochemical Technical Data Statement

File	)	
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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Sur	·vaule)	MAGNETI	C		
Township o		BRISTOL	and OGDEN		
Claim Holde			DOME INC.		MINING CLAIMS TRAVERSED  List numerically
Survey Com	•	<del></del>	CH CONSULTANTS	LTD.	(prefix) (number)
Author of R	•	LOUIS R			P 985606 - 607
Address of	Author		11 Queen Street		985620 - 621
Covering Da  Total Miles		′ ′ ′	0, 1987 - Janus (linecutting to office) km.	ăfÿ"29, 190	985633 - 634
Total Miles	or mile out				985641 - 646
	, PROVISIO S REQUEST		Geophysical	DAYS per claim	985727 - 754
b .	10 days (incl ng) for first	ludes	Electromagnetic- Magnetometer		P 997457 - 460 997462 - 463
survey.	o, £	1.	-Radiometric		997466 - 467
additiona	20 days for e I survey usin		Geological	1	997470 - 471
same grid	•		Geochemical		
	ter	Electromagr (enter d	netic Radiome ays per claim)	etric	
Res. Geol		Qualif	ications		
Previous Su		<b>D</b>	Oleim Held		
File No.	Туре	Date	Claim Hold	er	
•••••			•••••••		
•••••					
					TOTAL CLAIMS 50

#### GEOPHYSICAL TECHNICAL DATA

GRAUND SURVEYS - If more than one survey, specify data for each type of survey 2693 Number of Stations ... Number of Readings \_\_\_3027 25 metres (12.5 metres) 100 metres Station interval \_\_ Line spacing Profile scale \_\_\_\_ 5 gammas Contour interval \_\_\_ Gem System GSM-18 Memory Magnetometer Instrument \_\_ 0.1 gamma Accuracy - Scale constant \_ Base Station recorder with readings taken at Diurnal correction method 3 second intervals Base Station check-in interval (hours)\_\_ Map 87-191-D Base Station location and value \_\_\_\_\_ L29+00W, 4+75S 59,302 qammas Instrument \_\_\_\_\_ Coil configuration \_\_\_\_\_ Coil separation \_\_\_\_\_ Accuracy \_\_\_ ☐ Fixed transmitter Method: ☐ In line ☐ Shoot back ☐ Parallel line Frequency\_\_\_\_\_ (specify V.L.F. station) Parameters measured \_\_\_\_\_ Instrument \_\_\_ Scale constant \_\_\_\_\_ Corrections made \_\_\_\_\_ Base station value and location Elevation accuracy\_\_\_\_\_ Instrument \_\_\_\_\_ ☐ Time Domain Method ☐ Frequency Domain Parameters - On time \_\_\_\_\_\_ Frequency \_\_\_\_\_ - Off time \_\_\_\_\_ Range \_\_\_\_\_ - Delay time \_\_\_\_\_ - Integration time Power \_\_\_ Electrode array \_\_\_\_\_ Electrode spacing \_\_\_ Type of electrode \_\_\_\_

INDUCED POLARIZATION

Report of Work

(Geophysical, Geological, chemical and Expend





900

Type of Survey(s)

Claim Holder(s)

PROJ. 24

PLACER DOME INC.

W8806-036)

MAGNETIC

Lownship or Area

TWPS. BRISTOL and OGDEN

Prospector's Licence No.

T-837

Box 350, IBM TOWER, TO CENTRE, TORONTO, ONTARIO

Survey Company

GEOSEARCH CONSULTANTS LTD.

Date of Survey (from & to)
20 08 87 29 01 88
Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line Cut

65.7

Name and Address of Author (of Geo-Technical report)
LOUIS RACIC 360 - 111 Queen Street EAst, Toronto, Ontario, M5C 1S2

LUUIS KACIC .	יטטי – דדד קטי	een st
Credits Requested per Each (	Claim in Columns at ri	ght
Special Provisions	Geophysical	Days per Claim
For first survey:	- Electromagnetic	
Enter 40 days. (This includes line cutting)	Magnetometer	40
For each additional survey:	- Radiometric	
using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side	Chectromagnetic	
an R TE Cal OhR DE		
	- Magnetometer	
	- Ridiometric	
FEB 10 198	- O Ner	
	Geological	
	Geoch mical	
Airborne Credits		Days per Claim
Note: Special provisions	ElectromagnetionUN	$\sqcap$
Note: Special provisions credits do not apply to to Airborn Sympton	Radiometric	
Expenditures (exclude) power	er stripping 1988	
Type of Work Performed	ECELVED	
Performed on Claim(s)		
	MAR 1 4 1988	
Calculation of Expenditure Days Total Expenditures	yg Lands secti	QN. Credits
\$	+ 15 =	
Instructions Total Days Credits may be an choice. Enter number of days in columns at right.		

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Prefix	lining Claim Number	Expend. Days Cr.	
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		997460	
	383	997462	
	A1211	997463	
	Total nun	nber of mining	5

claims covered by this report of work.

50

Date FEB	5	1944	Recorded Holder or Argent (Signature
			Report of Work

10	Office Oac Only
otal Days Cr.	Date Recorded
	(4.11) 10/08
2000	Date Approved as Recorded

Ear Office Use Only

Mining Record	WHA
Branch Director	1

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name :	<b>a</b> nd	Postal	Address	of	Person	Certifyi	ng

LOUIS RACIC 360-111 QUEEN

TOKUNTO ST. E

M5C 157

Date Certified

**CEROX TELECOPIER 495-1;25- 4-88; 9:40AM** ;

7052648723+

4169216926;# 3

SENT BY: MND&M M.R.-TIMMINS ; 4-25-88 9:34AM ;

7052648723->

4169216926;# 3

CLAIMS CON'T

997466 997467 .

997470 .

997471 ,



# Geophysical-Geological-Geochemical Technical Data Statement

Title.		
File		 

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Sur	(2)	MAGNETI	.c		
Township o			and OGDEN	r	
•			DOME INC.		MINING CLAIMS TRAVERSED
Claim Holde	er(s)	T E T OE II	21101	L	List numerically
Survey Com	npany	GEOSEAR	CH CONSULTANTS LTD.		
Author of R	• '	LOUIS R	ACIC		(prefix) (number) P 876377 – 378
Address of	•	360 - 1	11 Queen Street East,		
Covering Da	ates of Surv	ey Aug.2	0, 1987 - January 29,	<u> 19</u> 88	876379 - 380
Total Miles		<del>.</del> .	(linecutting to office)		985633 - 634
Total Wiles	or Line Gu	·			985641 - 646
SPECIAL	. PROVISIO	ONS	DAYS	7 [	985727 - 754
	S REQUEST		Geophysical per claim	1 1	
			-Electromagnetic	_   -	P 997457 - 460
	0 days (inc		-Magnetometer 40	_	997462 - 463
survey.	ng) for thist		-Radiometric	-1 1	997466 - 467
ENTER 2	0 days for	each	-Other	_	
additiona	l survey usii		Geological	_	997470 - 471
same grid	•		Geochemical	_	
AIRBORNE	E CREDITS	(Special provis	sion credits do not apply to airborne survey.	.)	
Magnetome	ter		netic Radiometric	[	
DATE: Je	an.29/88		TURE: Author of Report or Agent		
Res. Geol		Qualif	ications 2 . 8017		
Previous Sur File No.	rveys Type	Date	Claim Holder	ľ	
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	• • • • • • • • • • • • • • • • • • • •				TOTAL CLAIMS 50

OFFICE USE ONLY

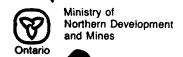
### GEOPHYSICAL TECHNICAL DATA

## GROUND SURVEYS - If more than one survey, specify data for each type of survey

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N	umber of Stations 2693	Number of Readings3027	
s	tation interval 25 metres (12.5 metres)	Line spacing100 metres	
	rofile scale		
	ontour interval 5 gammas		
ELECTROMAGNETIC MAGNETIC	Instrument Gem System GSM-18 Memory Mag Accuracy — Scale constant O.1 gamma  Diurnal correction method Base Station recor Base Station check-in interval (hours) 3 second is Base Station location and value Map 87-19  L 29+00W,  Instrument Coil configuration	der with readings taken at ntervals 1-D 4+75S 59,302 gammas	
VA V	Coil separation		
<u>S</u>	Accuracy Fixed transmitter		
Ş	Method:	Shoot back	el line
ELF	(specify	V.L.F. station)	
GRAVITY	Instrument Scale constant Corrections made  Base station value and location Elevation accuracy		
	,		
	Instrument		
	Method	☐ Frequency Domain	
	Parameters - On time	Frequency	
K	- Off time	Range	
RESISTIVITY	Delay time	<del></del>	
	- Integration time		
	Electrode array		
	Electrode spacing		
	Type of electrode		

INDUCED POLARIZATION



# Technical Assessment Work Credits

	2.10927	
Date	Mining Recorder's Report of Work No.	
May 19, 1988	W8806-036	

File

REV	I	S	Ε	D
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Recorded Holder						
Placer Dome Inc. Township or Area						
Bristol and Ogden						
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed					
Geophysical						
Electromagnetic days						
Magnetometer 40 days	P 876377 to 379 inclusive 985633-34					
Radiometric days	- 985641 to 645 inclusive - 985729 to 733 inclusive					
Induced polarization days	985736 to 750 inclusive -985752 to 754 inclusive					
Other days	-997457 to 460 inclusive -997462-63					
Section 77 (19) See "Mining Claims Assessed" column	- 997466-67-70-71					
Geological days						
Geochemicaldays						
Man days Airborne Airborne						
Special provision Ground Ground						
Cradits have been reduced because of partial coverage of claims.						
Credits have been reduced because of corrections to work dates and figures of applicant.						
special credits under section 77 (16) for the following m	nining claims					
20 day	<u>'S</u>					
P 8763	80					
9856	46					
9857	27-28-34-35-51					
lo credits have been allowed for the following mining claims						
not sufficiently covered by the survey insufficient technical data filed						
he Mining Recorder may reduce the shown credits if necessary i	in Order that the total number of approved assessment days recorded on each claim does not					

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does no exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



and Mines

Ministère du Développement du Nord et des Mines

May 19, 1988

Your file: W8806-036 Our file: 2.10927

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Re: Notice of Intent Dated April 27, 1988 Geophysical (Magnetometer) Survey submitted on Mining Claims P 876377 et al in the Townships of Bristol and Ogden ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
MAY 21 1988
RECEIVED

The assessment work credits, as listed on the attached revised statement, have been approved as of the above date.

This approval replaces the statement dated April 27, 1988, as there was typographic errors in this technical data statement.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager Mining Lands Section Mines & Minerals Division

Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3

SH:pl Enclosure

cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

Resident Geologist Timmins, Ontario

Placer Dome Inc. Box 350 IBM Tower, TD Centre, Suite 3500 Toronto, Ontario M5K 1N3



## Technical Assessment Work Credits

2.10927

April 27, 1988

Mining Recorder's Report of Work No. W8806-036

Recorded Holder Placer Dome Inc.					
Township ox XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed				
Geophysical					
Electromagnetic days					
Magnetometer do	P 876377 to 379 inclusive 985633-34				
Radiometric days	985641 to 645 inclusive 985729 to 733 inclusive				
Induced polarizationdays	985736 to 750 inclusive 985752 to 754 inclusive				
Other days	9 <del>97457 to 463 inclusive</del> 997466 to 471 inclusive				
Section 77 (19) See "Mining Claims Assessed" column	991457 fo460 991462 -63				
Geologicaldays	997466-61-70-71				
Geochemical days	9 <del>41401 10 11</del>				
Man days Airborne	1. be of				
Special provision ( Ground ( )	Jake of 6 991461				
Credits have been reduced because of partial coverage of claims.	977 / 108				
Credits have been reduced because of corrections to work dates and figures of applicant.	69				
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	·				
Special credits under section 77 (16) for the following r	mining claims				
	<u>ys</u>				
P 876	<del></del>				
985	646				
98572 <b>½</b> -28-34-35-51					
No credits have been allowed for the following mining claims					
not sufficiently covered by the survey insufficient technical data filed					
	i				
1	i				
	i				
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Ministère du Développement du Nord et des Mines

May 13, 1988

Your File: W8806-036 Our file: 2.10927

Mining Recorder Ministry of Northern Development and Mines 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

Notice of Intent dated April 27, 1988 Geophysical (Magnetometer) Survey submitted on Mining Claims P876377 et al in the Townships of Bristol and Ogden

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

Æl.R. Cowan, Manager ₱Mining Lands Section

Mines and Minerals Division

Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888

SH:pl

Enclosure: Technical Assessment Work Credits

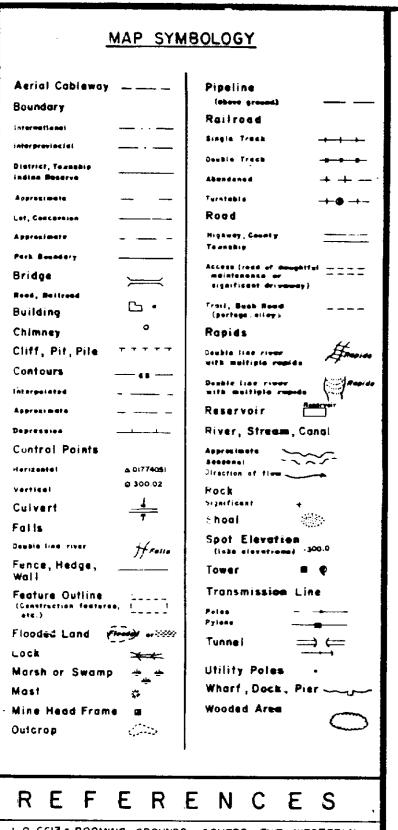
cc: Mr. G.H. Ferguson

Mining & Lands Commissioner

Toronto, Ontario

Resident Geologist Timmins Lake, Ontario

Placer Dome Inc. Box 350 IBM Tower, TD Centre, Suite 3500 Toronto, Ontario M5K 1N3



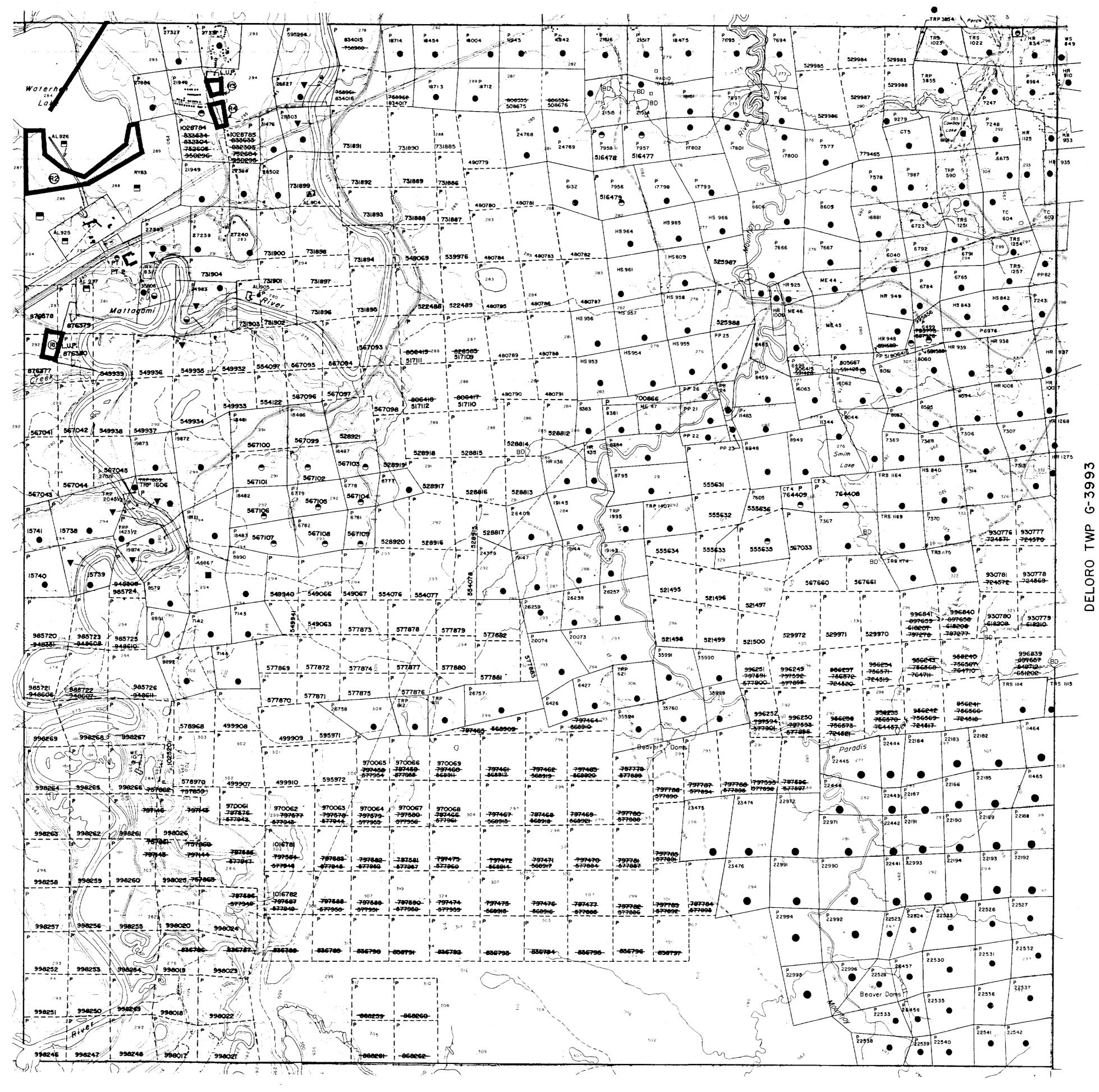
L.Q 6613 - BOOMING GROUNDS - COVERS THE WESTERLY HALF OF THE BED OF THE MATTAGAME RIVER FLOWING THROUGH THE TOWNSHIP FILE: 73543

### AREAS WITHDRAWN FROM DISPOSITION

3998

M.R.O. - MINING RIGHTS ONLY S.R.O. - SURFACE RIGHTS ONLY M.+ S. - MINING AND SURFACE RIGHTS

- BONA FIDE APPLICATION UNDER PLLA, FOR SURFACE
- (2) NRW 51 / 79 , 2 / 11 / 79 S.R.O.
- BONA FIDE APPLICATION UNDER P.L.A., MAY 9, 1985.
- BONA FIDE APPLICATION UNDER PILA, PLOTTED
- RS -ORDER OF THE MINISTER WITHDRAWS THE MINISTER PURSUANT TO SECTION 214 (2) OF THE MINING ACT <del>R.5.0, 1980.</del> 29 / 08 / 86 . MINING RIGHTS REINSTATED, SEE FILE 313.7.



MOUNTJOY TWP G-3974



LEGEND HIGHWAY AND ROUTE No. OTHER ROADS TRAILS \_\_\_\_\_ SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC. --**UNSURVEYED LINES:** LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC. RAILWAY AND RIGHT OF WAY UTILITY LINES **→** NON-PERENNIAL STREAM FLOODING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN RESERVATIONS **ORIGINAL SHORELINE** MARSH OR MUSKEG TRAVERSE MONUMENT

## **DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT	SYMBOL			
PATENT, SURFACE & MINING RIGHTS				
", SURFACE RIGHTS ONLY				
" , MINING RIGHTS ONLY				
LEASE, SURFACE & MINING RIGHTS				
" , SURFACE RIGHTS ONLY	🗖			
" , MINING RIGHTS ONLY				
LICENCE OF OCCUPATION	▼			
ORDER-IN-COUNCIL	oc			
RESERVATION	®			
CANCELLED				
SAND & GRAVEL	💿			
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.				

SCALE 1:20 000

10 0 10 20 30 40 50



TOWNSHIP

# OGDEN

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE LAND TITLES / REGISTRY DIVISION COCHRANE



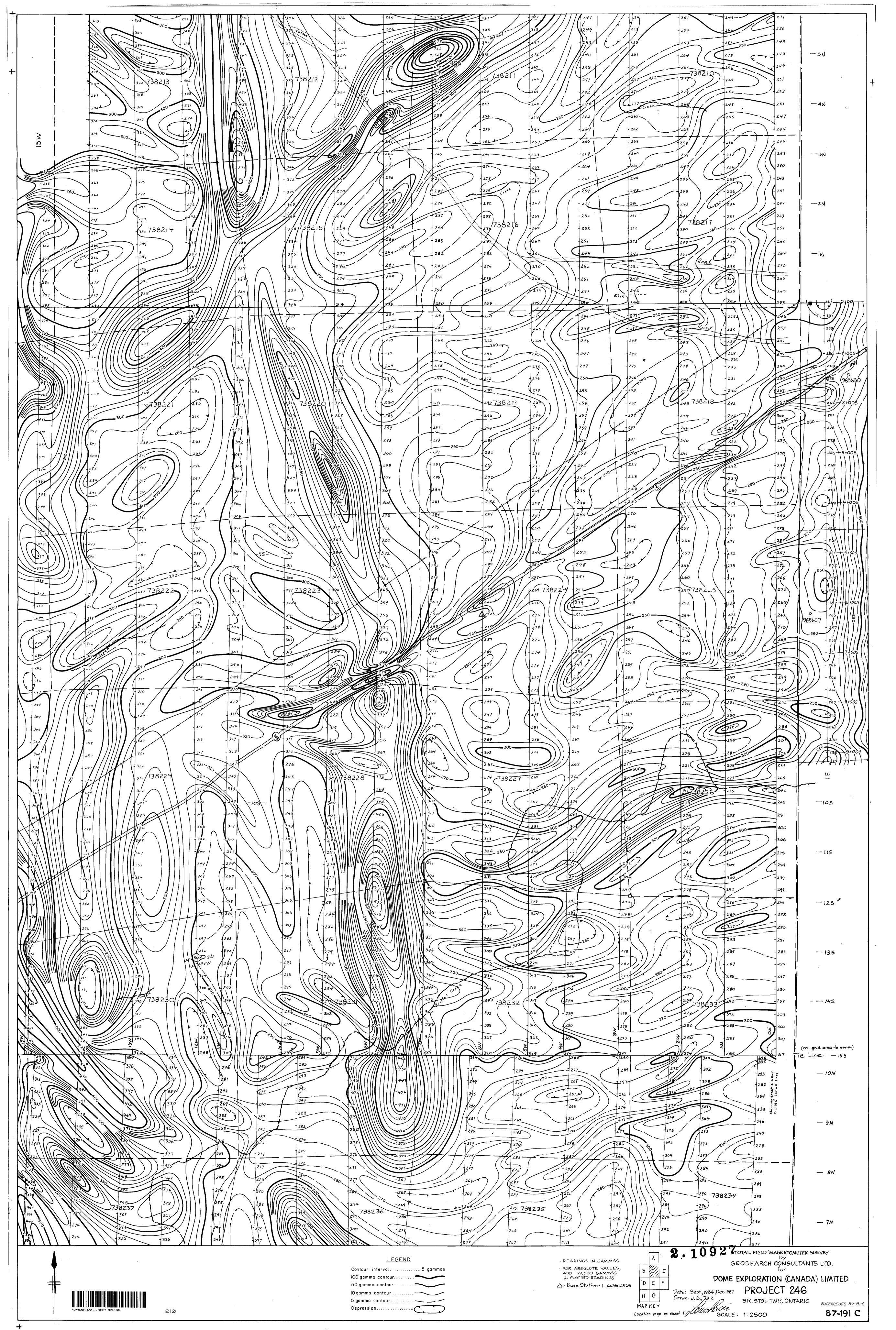
Ministry of

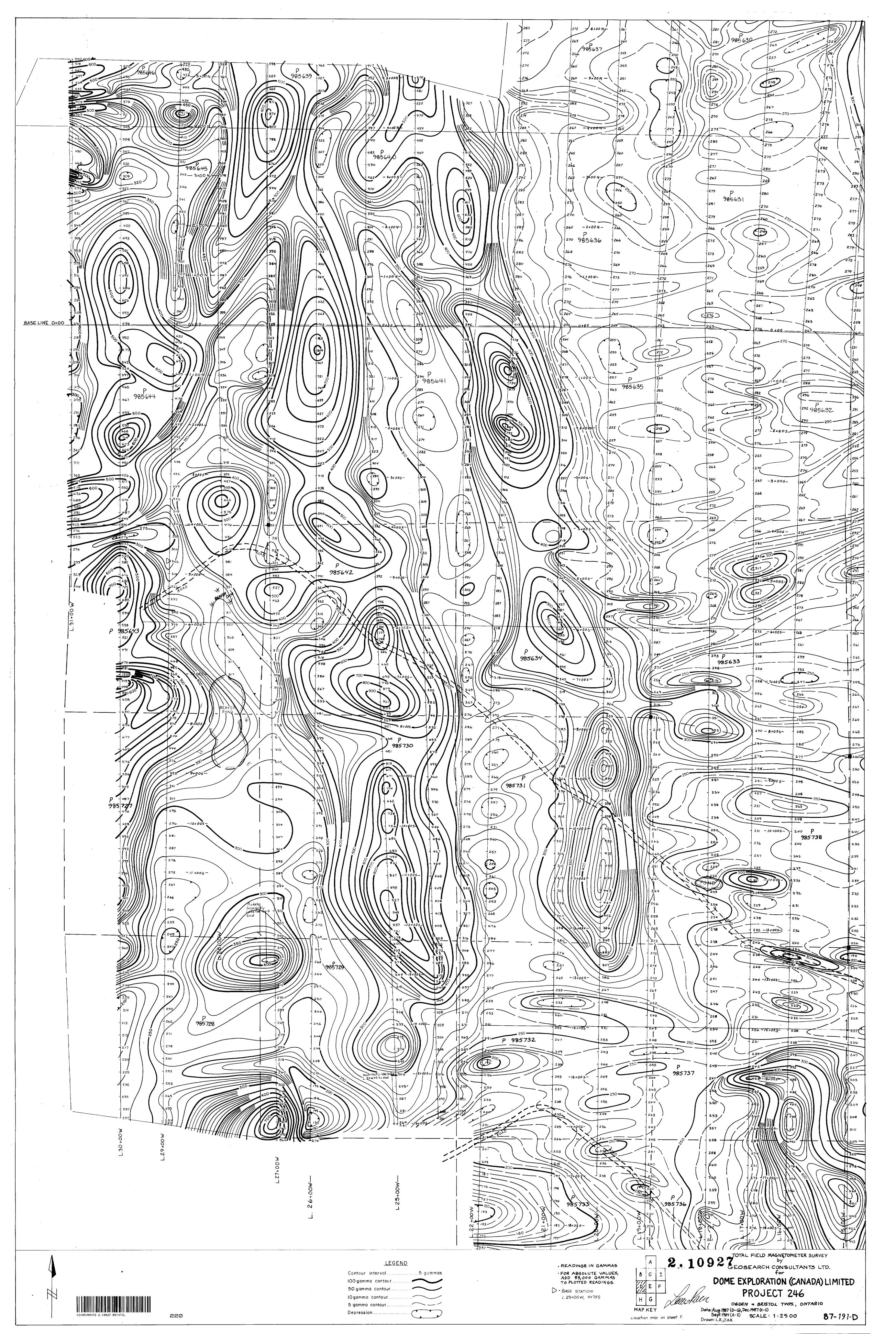
Land Management Resources Branch

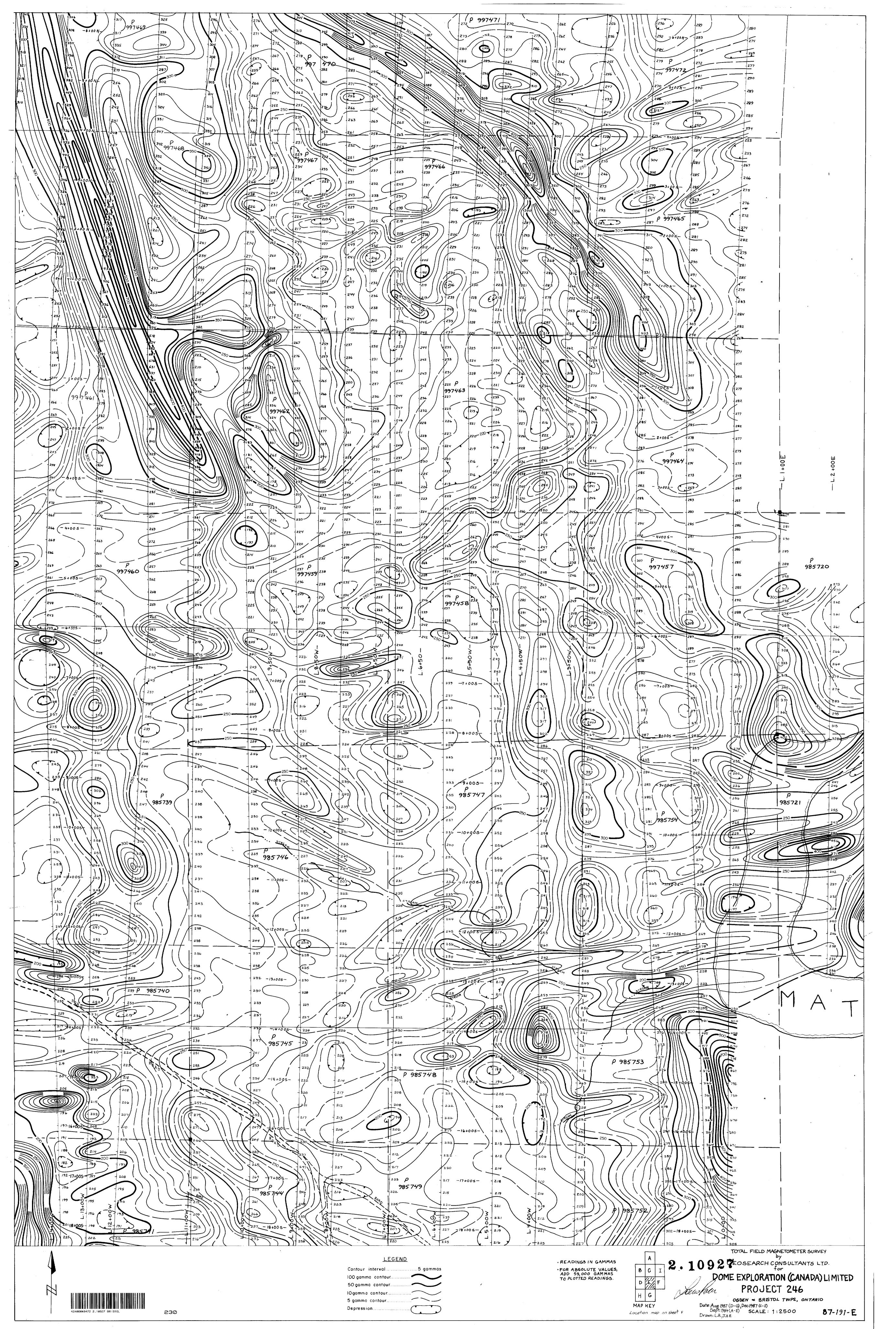
Date FEBRUARY, 1984

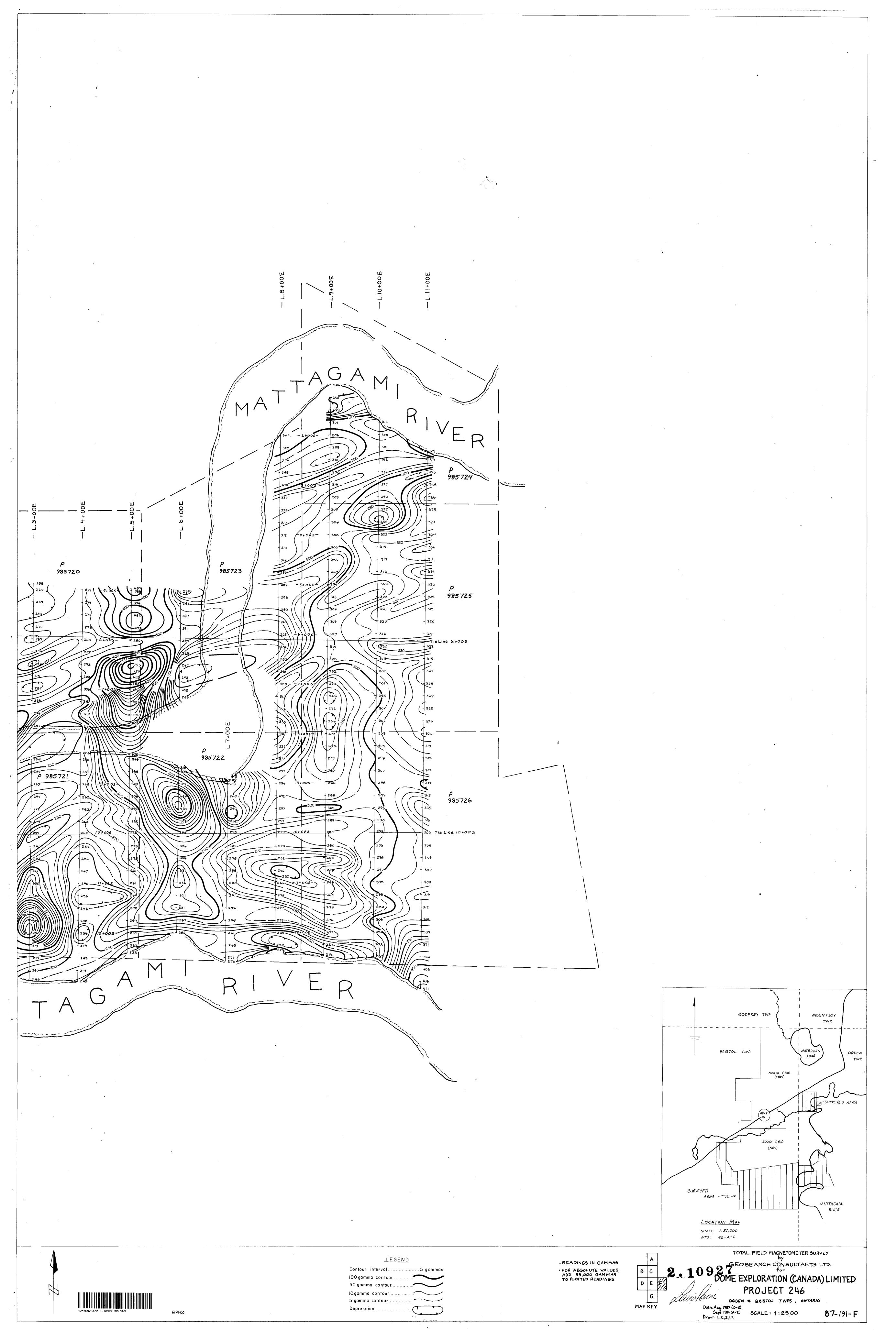
RECEIVED MARCH 15, 1984

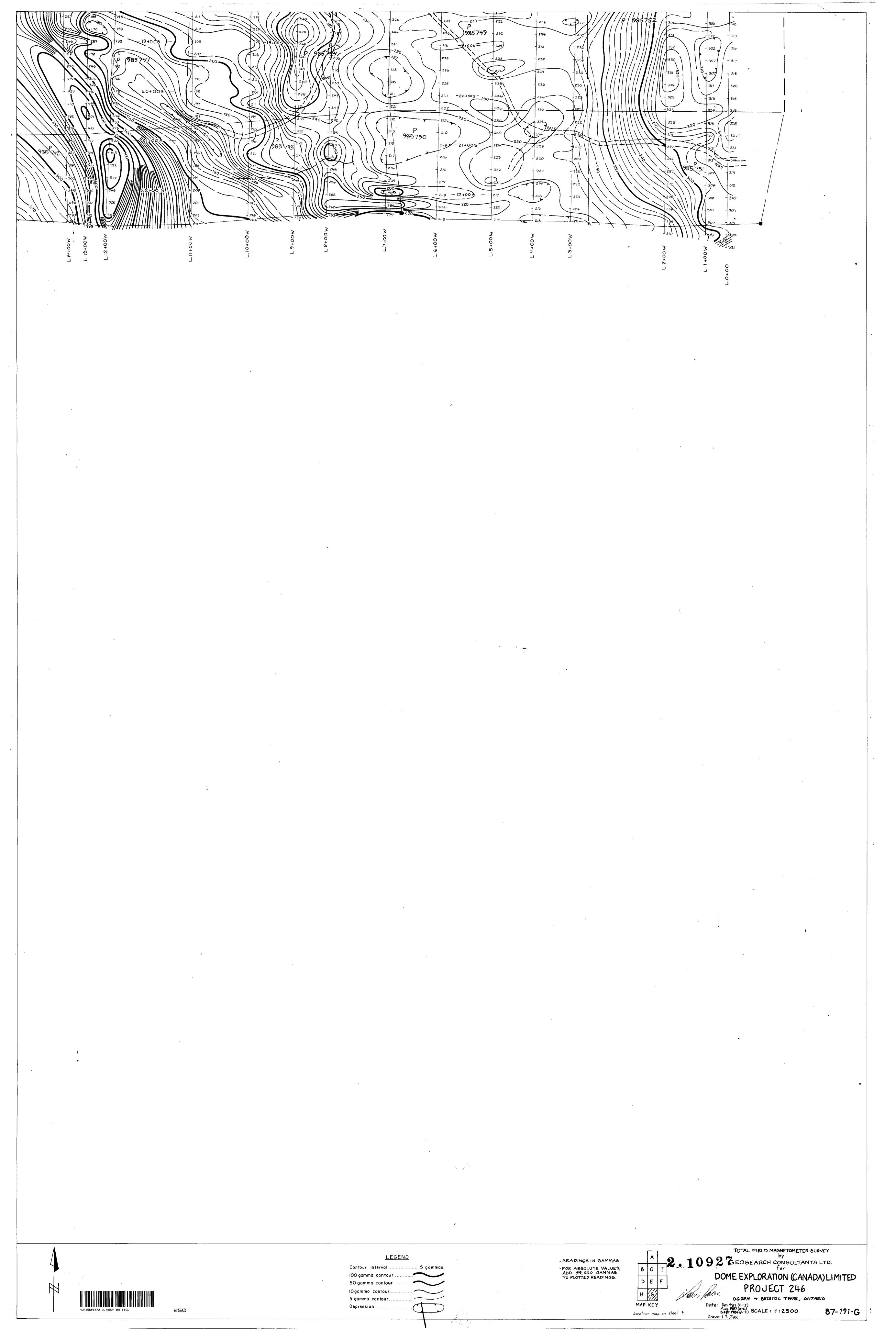
200











LEGEND

..5 gammas

Contour interval. 100 gamma contour 50 gamma contour 10 gamma contour 5 gamma contour. Depression.

. READINGS IN GAMMAS FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS.

MAP KEY

Location map on sheet F

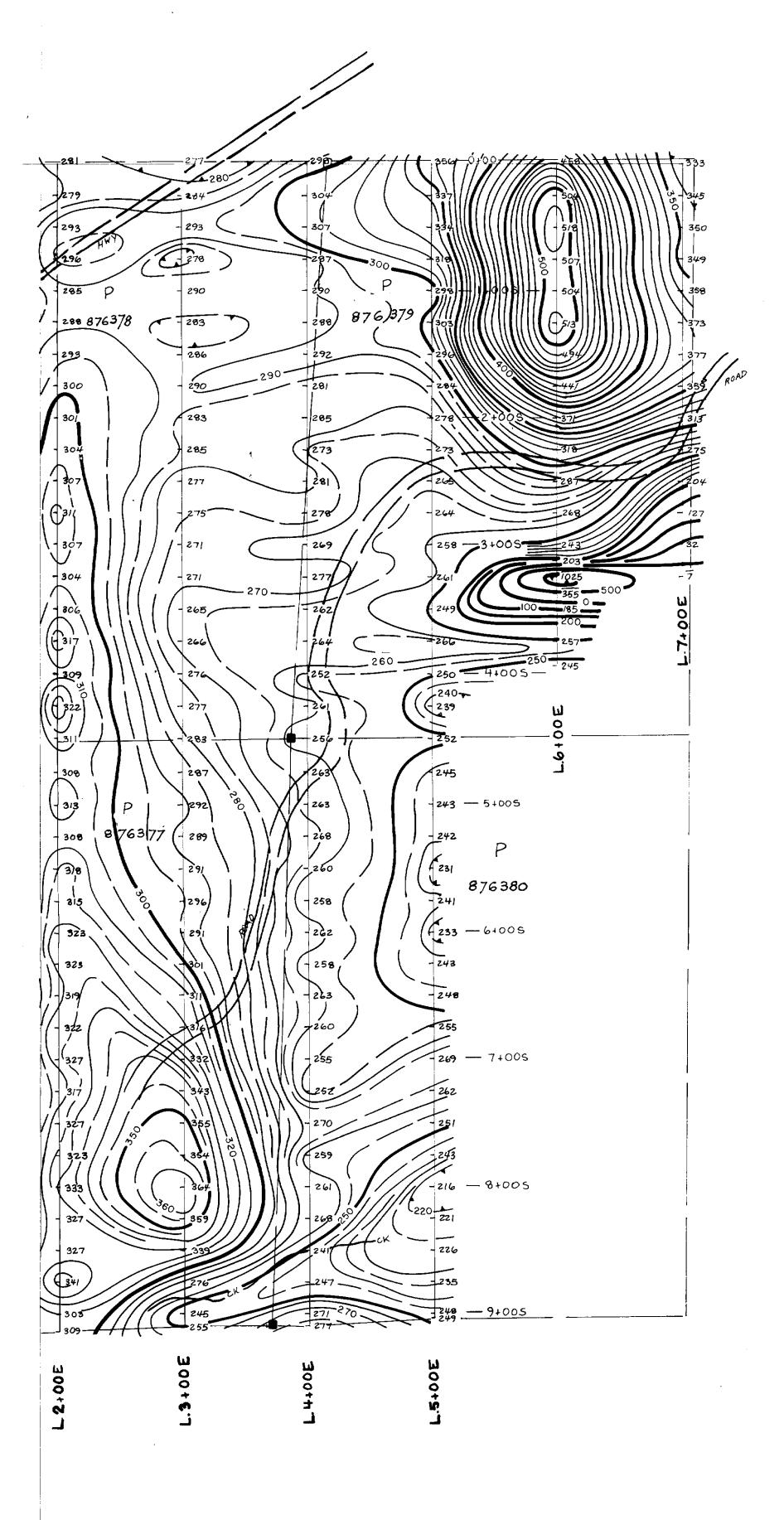
TOTAL FIELD MAGNETOMETER SURVEY by

1092 GEOSEARCH CONSULTANTS LTD.

for DOME EXPLORATION (CANADA) LIMITED PROJECT 246 OGDEN & BRISTOL TWPS., ONTARIO

87-191-H SCALE: 1:2500

260



<u>LEGEND</u>

Contour interval.. 100 gamma contour 50 gamma contour. lOgamma contour. 5 gamma contour.

Depression.

..5 gammas

. READINGS IN GAMMAS FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS.

MAP KEY

2.1092 GEOSEARCH CONSULTANTS LTD.

DOME EXPLORATION (CANADA) LIMITED PROJECT 246